

52.) a.) $P = \frac{1}{2}a - \$1.50$

$$P = \frac{1}{2}(6.99) - 1.50$$

$$P =$$

b.) $Z = 3w - 7.00$

$$Z = 3(2.99) - 7.00$$

$$Z$$

c.) $P = 2b - 0.98$

blueberries	2.99
pumpkins	5.00

$$\begin{array}{r} 1 \ 2.99 \\ 2(2.99) \end{array} \underline{\quad} = 5.00$$

$$\begin{array}{r} 1 \ 2.99 \\ 2(2.99) \end{array} \underline{\quad} = 10.00$$

22.)

$$\frac{3}{1} \cdot \frac{+22 - w}{3} = -7 \cdot 3$$

$$\cancel{22} - w = -21$$

$$\begin{array}{r|l} D & u \\ \hline +22 & \times 3 \\ \hline \end{array}$$

$\div 3$

$$\begin{array}{r|l} & -22 \\ \hline \end{array}$$

$$(-1) \cdot -w = -43 (-1)$$

$$w = 43$$

30.)

$$-6m - 8 = 24$$
$$\quad \quad +8 \quad +8$$

$$\frac{-6m}{-6} = \frac{32}{-6}$$

$$m = -5\frac{1}{3}$$

$\cancel{-6}$	$\cancel{+8}$	Solve
$\cdot (-6)$	$+8$	$\div (-6)$
-8		

38.)

$$\begin{aligned}
 -\frac{1}{5} - \frac{4}{9}a &= \frac{2}{15} \\
 +\frac{1}{5} &\quad +\frac{1}{5} \\
 -\frac{9}{4} \cdot -\frac{4}{9}a &= \frac{1}{3} \left(-\frac{9}{4} \right) \\
 a &= -\frac{3}{4}
 \end{aligned}$$

PEMDAS	SADM EP
\mathcal{D}	l
$\cdot -\frac{4}{9}$	$+ \frac{1}{5}$
$-(-\frac{1}{5})$	$\cdot -\frac{9}{4}$

32.

$$\frac{2b}{3} + 4 = 24$$

left *=* *right*

$$\frac{2b}{3} - 4 \quad \quad \quad 24 - 4$$

$$\frac{2b}{3} = 20$$

$$\frac{3}{1} \cdot \frac{2b}{3} = 18 \cdot 3$$

$$2b = 54$$

a *b*

$b = 27$

Solve

$$\begin{array}{c|c} D & U \\ \hline \times 2 & -6 \\ \div 3 & \times 3 \\ + 6 & \div 2 \end{array}$$

} inverse
operations

46.) $\frac{-8.9 = -6b - (-3)}{-8}$

$\cancel{-8}$	$\cancel{-8}$	$\cancel{+3}$	$\div (-8)$	b
-72	$-6b$	-3	$\div (-6)$	$\cdot (-8)$
-3	-3			-3

$-72 = -6b + 3$

$\frac{-75}{-6} = \frac{-6b}{-6}$

$12\frac{1}{2} = b$

Consec. $n, n+1, n+2, n+3$

Consec.
odds or evens
 $n, n+2, n+4, n+6$

wb pg. 20

Three added to a number, then the sum
is multiplied by 4 and the answer is 16.

1.)

$$(n + 3)4 = 16$$

$$\begin{array}{r} 4n + 12 = 16 \\ \quad -12 \quad -12 \\ \hline \end{array}$$

$$\begin{array}{r} 4n = 4 \\ n = 1 \end{array}$$

2.)

$$\begin{array}{rcl} \frac{n}{4} + 3 & = & 24 \\ -3 & & -3 \\ \hline \frac{n}{4} & = & 21 \\ \times 4 & & \\ \hline n & = & 84 \end{array}$$

3.) $(n - 2)5 = 30$

$$\begin{array}{rcl} 5n - 10 & = & 30 \\ +10 & & +10 \end{array}$$

$$5n = 40$$

$$n = 8$$

4.)
 $b = \frac{\# \text{ of}}{\text{birds}}$

$$\frac{1}{4}b - 2 - 3 = 4$$

$$\frac{1}{4}b - 5 = 4$$

$+5 \quad +5$

$$\frac{4}{1} \cdot \frac{1}{4}b = 9 \cdot \frac{4}{1}$$

$$b = 36$$

D	U
• $\frac{1}{4}$	+5
-5	• $\frac{4}{1}$

8.)

$$\frac{u}{5} + 6 = 2$$
$$\begin{array}{r} -6 \\ \hline -6 \end{array}$$

$$\begin{array}{c|c} D & u \\ \hline \div 5 & -6 \\ + 6 & \cdot 5 \end{array}$$

$$\cancel{\frac{u}{5}} + 6 = 2$$

$$u = -20$$

